

KNOWING WEIGHTS AND MEASURES GIVES US ANSWERS!

USE THE EQUATIONS TO SOLVE THE QUESTIONS.

- Do you know how much it costs to use one of your kitchen appliances?



$$\text{COST} = \frac{W c t}{1000}$$

W is the number of Watts used
c is the cost per kilowatt hour
t is the time in hours



- How much speed does a falling object acquire?

$$v = 32t$$

v is the velocity or speed.
t is the time in seconds.



- What is the distance in feet traveled by a falling object?

$$d = 16 t^2$$

d is the distance
t is the time in seconds

- What is the speed of sound in feet per second through any given temperature of air?

$$V = \frac{1087 \sqrt{273 + t}}{16.52} \quad t \text{ is the temperature Centigrade}$$

- How is matter converted into energy?

$$E = mc^2$$

E is the energy in ergs
m is the mass of the matter in grams
c is the speed of light in centimeters per second